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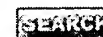

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative r**

Publisher: IBM Press

 Full text available: [pdf\(4.21 MB\)](#)

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event-driven tool at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the ability to understand the application. In our experience, such tools display repeated occurrences of non-trivial communication patterns.

2 [Reviewed articles: Troubleshooting wireless mesh networks](#)

Lili Qiu, Paramvir Bahl, Ananth Rao, Lidong Zhou

 October 2006 **ACM SIGCOMM Computer Communication Review**, Volume 36 Issue 5

Publisher: ACM Press

 Full text available: [pdf\(352.47 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Effective network troubleshooting is critical for maintaining efficient and reliable network operation. Troubleshooting is challenging in multi-hop wireless networks because the behavior of such networks depends on complicated interactions between many factors such as RF noise, signal propagation, node interference, and traffic flows. In this paper we propose a new research on fault diagnosis in wireless mesh networks. Specifically, we present a diagnostic system that emulates the behavior of the network.

Keywords: fault diagnosis, mesh networks, simulation

3 [Improving Network Operations With Intelligent Agents](#)

Nathan J. Muller

 July 1997 **International Journal of Network Management**, Volume 7 Issue 3

Publisher: John Wiley & Sons, Inc.

 Full text available: [pdf\(314.75 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

Automating network and system management tasks has never been easier, since the advent of intelligent agents describes the uses and advantages of intelligent agents, to identify and resolve problems locally, instead of dispatching agents to remote locations, which is both expensive and time-consuming. © 1997 John Wiley & Sons, Ltd.

4 [A hierarchical multicast monitoring scheme](#)



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181 [Task-structure analysis for knowledge modeling](#)

B. Chandrasekaran, Todd R. Johnson, Jack W. Smith
September 1992 **Communications of the ACM**, Volume 35 Issue 9

Publisher: ACM Press

Full text available: pdf(2.77 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: analysis, modeling

182 [An architecture for a secure service discovery service](#)

Steven E. Czerwinski, Ben Y. Zhao, Todd D. Hodes, Anthony D. Joseph, Randy H. Katz
August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and**

Publisher: ACM Press

Full text available: pdf(1.47 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

183 [Fault-tolerance in air traffic control systems](#)

Flaviu Cristian, Bob Dancey, Jon Dehn
August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(264.57 KB)

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The distributed real-time system services developed by Lockheed Martin's Air Traffic Management group serve th number of air traffic control systems. Either completed development or under development are the US Federal A Administration's Display System Replacement (DSR) system, the UK Civil Aviation Authority's New Enroute Cente and the Republic of China's Air Traffic Control Automated System (ATCAS). These systems are intended to replac

Keywords: exception handling, failure, failure classification, failure masking, failure semantics, fault-tolerant sy: communications, redundancy, server group, software robustness, system architecture

184 [Social Analyses of Computing: Theoretical Perspectives in Recent Empirical Research](#)

Rob Kling